GE Healthcare

Education Services

Anesthesia Delivery and Respiratory Care

Technical Education

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technical service training tailored to fit *your* needs!

about technical education from GE Healthcare

GE Healthcare Education Services delivers technical education for Diagnostic Imaging, Computed Tomography, Magnetic Resonance, Mammography, Nuclear Medicine/PET, Ultrasound, Monitoring, Diagnostic Cardiology, Infant Care and Anesthesia Delivery Systems and Respiratory products. We also offer a curriculum of Network Infrastructure and Protocols Training classes focused specifically on the needs of today's biomedical and technical professionals.

our goal

To be recognized as the global leader in healthcare education solutions.

- Building customer knowledge and competencies through a diverse educational portfolio in an increasingly complex healthcare environment.
- Striving to exceed customer expectations by delivering exceptional quality education that is clinically relevant and has a measurable impact on practice.
- Be a provider of choice for Network Infrastructure and Protocols Training education regardless of medical equipment choices, previous learning or experience.

registration instructions

Registration is online.
Go to www.gehealthcare.com/training and choose the appropriate category for course schedules and registration link. Select your course and complete all information. Print a copy for your files before submitting. When done, click on Save and Submit to send registration form to a Training Coordinator.

for product technical - devices courses only:
Patient Monitoring and Diagnostic Cardiology, Life Support Solutions and Ultrasound. Please print the Technical – Devices Agreement & Employment Verification Form.

for healthcare IT courses only:
Essentials of Healthcare IT, Wireless in the Healthcare Environment, Securing the Healthcare IT Environment, Essentials of DICOM®, Essentials of HL7®. Please print the Non-Disclosure Agreement & Employment Verification Form.

confirmation of enrollment is sent automatically via email.

customer requirements:

If you are attending one of the classes listed below, please bring a laptop with you to access the electronic service manual during the course. The service manual is going to assist you in the class.

If you are unable to bring a laptop, please bring your service manual to class.

- ApexPro™ CH
- ApexPro FH
- Carescape™ B650
- Carescape B850
- Carescape B650/B850 Classes
- Clinical Information Center
- Clinical Information Center v5
- Case™/Cardiosoft™
- Dash™ Series
- Enterprise Access with FH
- Enterprise Access with CH
- Image Vault™
- Integrated Patient Monitoring
- LOGIQ™ i/e
- LOGIQ E9
- LOGIQ P3
- LOGIQ P5/P6
- LOGIQ S8
- MUSE™ 5D/5E
- MUSE 7
- Mars™ PC
- Mars v8
- Solar™ 9500
- Solar Series
- Vivid™ E9
- Vivid q/i
- Voluson™ E8/E6
- Voluson I
- Voluson S8/S6

Laptop requirements: PC based (Non Mac) Windows XP Pro or Windows 7; Local Administrator access; Wireless network card (Optional for Internet Access); Wired Network card; DB 9 Serial port; CD ROM drive; Ability to disable any and all spy ware and virus scan programs; HyperTerminal or other terminal emulation software; USB Port; AC Power Cord; Internet Explorer 8 or greater; Adobe Reader 6.0 or greater; Latest Flash Plug in; Windows Media Player 10 or greater

Note: At the present time, laptops are not a requirement for any of the anesthesia training classes.

policies and terms

attendance

- Students are required to arrive on time for class.
- Class start and end times vary. Please refer to your e-mail enrollment notification.
- For no-shows (i.e, registered students who do not attend the class but do not cancel in advance of the class start date), there is a no-show fee of full course tuition.
- Students must pass an assessment to receive certificate of successful completion.

low enrollment

GE Healthcare reserves the right to cancel classes due to low enrollment. Classes with low enrollment 15 business days prior to the scheduled date will be cancelled. Please consider this when booking your travel.

When GE Healthcare cancels a class, tuition will be refunded in full. Alternatively, tuition may be applied to the cost of another class scheduled to take place within 12 months of the original class.

GE Healthcare will not be held responsible for any travel costs incurred due to circumstances beyond our control, such as, but not limited to, hurricanes, tornados, or labor strikes.

cancellations

- Cancellations can be made by email or phone: edservices@ge.com or by contacting 888-799-9921.
- For cancellations made more than 3 weeks prior to the class start date, there is no cancellation fee.
- For cancellations made 7-15 business days prior to the class start date, there is a cancellation fee of 25% of course tuition. For cancellations made 1-6 business days prior to the class start date, there is a cancellation fee of 50% of course tuition.
- For no-shows (i.e, registered students who do not attend the class but do not cancel in advance of the class start date), there is a no-show fee of full course tuition.
- GE reserves the right to cancel or reschedule any class for any reason and at any time. GE will not be held responsible for any travel costs incurred due to causes beyond our control, such as, but not limited to, hurricanes, tornados, or strikes.

order expiration

Diagnostic Imaging Courses -
Training expires 24 months after order date.

Devices, Healthcare IT, and Ultrasound Courses -
Training expires 18 months after order date.

use of media & recording devices

The Healthcare Institute's (HCI) policies prohibit the use of any unauthorized personal removable media and recording devices in any courses, classrooms, and labs without the express consent of GE Healthcare. This includes, but is not limited to the following:

- Cell phones
- Still Cameras
- Video or audio recording devices
- Any external hard drives (Network or other)
- Any form of memory cards including, but not limited to; CompactFlash card, Secure Digital card (SD card), or Memory Stick
- Any other flash read/write media
- Any other USB read/write media

GE health and safety policy

GE Healthcare requires students to wear closed-toe and closed-heel shoes while attending training. Safety toe-shoes are required, but steel-toe shoe covers are available in the classroom. MR courses require composite toe safety shoes. Open-toe, high-heel shoes or sandals are not permitted.

education centers

waukesha, wi

The Healthcare Institute has expanded to include classrooms to support anesthesia classes and our new Network Infrastructure and Protocols Training curriculum.

jupiter, fl

Our center of excellence for patient monitoring product support now includes new classrooms featuring our new Network Infrastructure and Protocols Training curriculum and many GE product training classes.

remote locations

Periodically, we take classes to strategic locations for added customer convenience. Check our website for the most current list of classes www.gehealthcare.com/training.

hosting a class

If you have a group to train, consider hosting a class at your facility. Our instructors can bring a number of our courses to you for maximum flexibility and convenience. You eliminate travel expense and have the advantage of training multiple staff at the same time, which can reinforce learning.

pre-requisites

Many classes contain lecture and lab exercises requiring networking skills. The fundamentals of networking are not covered in products classes.

The following IT skills are required prior to enrollment*:

- IP addressing
- switch troubleshooting
- troubleshooting wireless
- networks
- subnetting
- router configuration
- network connectivity
- hard drives
- access control paths
- communication paths
- hardware replacement
- router troubleshooting
- network troubleshooting
- hubs
- POST
- back-up systems
- switch port configurations
- access point configuration

* courses requiring healthcare IT competency are identified on the course description page

accepted demonstration of healthcare IT competency:

- CompTIA Network+®, Microsoft MCP®, or Cisco CCNA® certification
- Essentials of Healthcare IT℠
- Participants may complete a test to demonstrate IT competencies required for specific courses.

For your convenience, we now have one number to call for information on any course.

1-888-799-9921

7100 Ventilator

The 7100 Ventilator class is designed for participants who have already completed the Aestiva™ 7900 or the Aespire™ 7900 class and only need to learn the 7100 ventilator portion of the machine. Participants will learn about the system's capabilities, component replacement, and how to perform the necessary planned maintenance procedures.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

EducationServices

product number

Tuition:	
7000-0001-501	$2,750
Tuition & lodging:	
M1117574	$2,935
Tuition, lodging & air:	
M1117575	$3,830*
* US only	

Note: This course is offered by request only

delivery method
classroom

length of course
1 day

pre-requisite required
Aestiva™ 7900 or Aespire™/7900

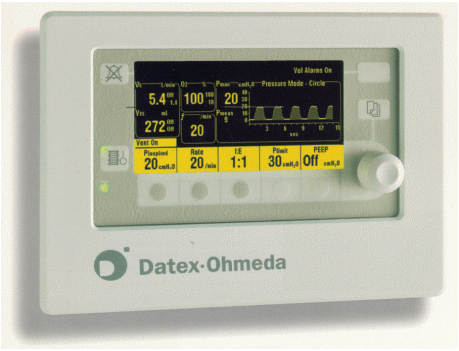
program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

7900 Ventilator

The 7900 ventilator technical class offers a detailed understanding of the pneumatics and electrical systems that make up the 7900 ventilator as found on the anesthesia machine. Hands-on labs are designed to reinforce skills needed to troubleshoot and repair components. Participants will also be taught how to perform planned maintenance.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers



product number

Tuition:	
7000-0001-389	$4,555
Tuition & lodging:	
M1117581	$4,925
Tuition, lodging & air:	
M1117582	$5,820*
*US only	

Note: This course is offered by request only

delivery method
classroom

length of course
2 days

pre-requisite required
Aestiva™ 7900 or Aespire™/7900

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aespire™ 7100

The Aespire 7100 Technical Class provides participants with an understanding of operation and configuration of the Aespire anesthesia machine and 7100 Ventilator. Hands-on labs are designed to reinforce skills required to remove and replace components, complete planned maintenance inspections, and perform calibrations. It is recommended that those with little or no exposure to the field of anesthesia take the Aespire Essentials course prior to attending this course.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

product number

Tuition:	
M1050985	$9,115
Tuition & lodging:	
M1117751	$9,855
Tuition, lodging & air:	
M1118454	$10,750*
*US only	

delivery method
classroom

length of course
4 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aespire™ 7900

The Aespire 7900 class provides participants with an understanding of operation and configuration of the Aespire anesthesia machine and 7900 Ventilator. Hands-on labs are designed to reinforce skills required to remove and replace components, complete planned maintenance inspections, and perform calibrations. It is recommended that those with little or no exposure to the field of anesthesia take the Aespire Essentials course.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

product number

Tuition:	
M1050986	$10,625
Tuition & lodging:	
M1118456	$11,365
Tuition, lodging & air:	
M1118457	$12,260*
*US only	

delivery method
classroom

length of course
4 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aespire™ Essentials

The two-day Aespire Essentials course covers basic theory, pneumatic design and operation of the Aespire anesthesia machine and ventilator. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing system, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Aespire anesthesia machine and ventilator.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

intended audience:

- Anesthesia Technicians
- Biomedical equipment technicians
- Biomedical and clinical engineers
- CRNAs
- Physicians

EducationServices

product number

Tuition:
M1179673 $3,135
Tuition & lodging:
M1195624 $3,505
Tuition, lodging & air:
M1195626 $4,400*
*US only

delivery method
classroom

length of course
2 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aespire™ View

Participants completing the Aespire View class will have a basic comprehension of the anesthesia system, breathing system, and ventilator. This will include pneumatic as well as electrical components. Hands-on labs will guide the students through planned maintenance, loading software, leak testing and troubleshooting, as well as disassembly, assembly, and adjustment of major components. It is recommended that those with little or no exposure to the field of anesthesia take the Aespire Essentials course.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

EducationServices

product number

Tuition:
M1175159 $12,752
Tuition & lodging:
M1175160 $13,677
Tuition, lodging & air:
M1175161 $14,572*
*US only

delivery method
classroom

length of course
4 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aestiva™/5 7900

Participant completing the Aestiva 7900 class will have a basic comprehension of the Aestiva anesthesia system, breathing system, and 7900 ventilator. This will include pneumatic, as well as, electrical components. Hands-on labs will guide the participants through planned maintenance, leak testing and troubleshooting, as well as disassembly, assembly, and adjustment of all components. Participants interested in a course on the 7100 Ventilator please register for Aestiva 7100 course.

Note: Explore! Aestiva Pre-Work and Pre-Test are included in the tuition

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

EducationServices

product number

Tuition:	
7000-0001-408	$12,145
Tuition & lodging:	
M1118465	$13,070
Tuition, lodging & air:	
M1118466	$13,965*
*US only	

delivery method
classroom

length of course
5 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aestiva™ Essentials

The two-day Aestiva Essentials course covers basic theory, pneumatic design and operation of the Aestiva anesthesia machine and ventilator. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing system, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Aespire™ anesthesia machine and ventilator.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

intended audience:

- anesthesia technicians
- biomedical equipment technicians
- biomedical and clinical engineers
- CRNAs
- physicians

EducationServices

product number

Tuition:	
M1179642	$3,135
Tuition & lodging:	
M1195627	$3,505
Tuition, lodging & air:	
M1195628	$4,400*

* US only

delivery method
classroom

length of course
2 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Anesthesia Delivery Unit (ADU)

This class provides comprehensive instruction in operation of the machine and the different levels of configuration. Participants will learn the function of each of the major assemblies that make up the ADU by removing them and identifying the components within each assembly. Participants also learn how the assemblies interface with each other. Hands-on labs are designed to reinforce the system checkout procedure and demonstrate troubleshooting skills learned during class presentations. Participants perform the planned maintenance by replacing required parts and performing the functional check. Required calibration are also demonstrated and performed as needed. This class does not cover the S/5 AM monitor. Participants who need monitor training should register for one of the monitor classes.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

product number

Tuition:	
7000-0001-422	$13,665
Tuition & lodging:	
M1117593	$14,590
Tuition, lodging & air:	
M1117594	$15,485*
*US only	

delivery method
classroom

length of course
5 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aisys™

Participants completing the Aisys class will have a comprehension of the Aisys anesthesia system, breathing system, and ventilator. This will include pneumatic, as well as, electrical components. Hands-on labs will guide the participants through planned maintenance, leak testing and troubleshooting, as well as disassembly, assembly, and adjustment of all components. This course also includes training for the laptop based service application program. Students will use classroom computers for the exercises. It is recommended that those with little or no exposure to the field of anesthesia take the Aisys Essentials course.

Note: Explore! Aisys on Web Pre-Work and Pre-Test are included in the tuition.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

customer requirements:

- Prior experience working on anesthesia machines is recommended

product number

Tuition:
M1050982 $13,665
Tuition & lodging:
M1118481 $14,590
Tuition, lodging & air:
M1118482 $15,485*
* US only

delivery method

classroom

length of course

5 days

pre-requisite recommended

Aisys Essentials

program information

Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aisys™ CS² Differences Online Service Training

When the student has finished this course they will have a working knowledge of the differences in hardware and software between the Aisys and Aisys CS².

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

course competencies:
upon successful completion of this course, the student should be able to:

- Support the repair/replacement of the Touch Display, cVIB, and Central Brake
- Identify elements of the ECOflow option
- Recognize alternative setups for service procedures
- Navigate User, Super User and Service Screens
- Support the use of the E-sCAiOV module
- Review the optional mode SIMV-PCV/VG

product number
Tuition:
2020786-323 $935

delivery method
online

length of course
2 hours

pre-requisite required
Aisys Technical Training Course

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aisys™ CS² Technical Service Training

The Aisys CS2 Technical Training class provides the participant with an understanding of the operation and configuration of the anesthesia machine and its ventilator. Hands-on labs are designed to reinforce skills required to understand the operation of the system, removal and replacement of components, loading of system software, troubleshooting using the appropriate tools, completion of the Planned Maintenance inspection, and performance of all calibrations.

course competencies:
upon successful completion of this course, the student should be able to:

- Install, operate, diagnose and resolve problem codes, and complete machine repairs and checkouts to comply with all manufacturer recommendations
- Have the knowledge to explain the operation of the Aisys CS2 anesthesia system including the gas delivery, ABS, scavenging system and ventilator
- Demonstrate the ability to locate, identify and explain the functions of the Anesthesia Machine Sub-systems through hands-on labs
- Have the abilitiy to perform calibrations and adjustments according to the technical reference manual
- Have the abilitiy to perform all planned maintenance procedures
- Have the ability to troubleshoot and resolve equipment problems
- Pass a written exam with a minimum score of 80% using reference materials

EducationServices

product number

Tuition:	
2020786-324	$13,665
Tuition & lodging:	
2020786-326	$14,590
Tuition, lodging & air:	
2020786-327	$15,485*

*US only

delivery method
classroom

length of course
5 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Aisys™ Essentials

The two-day Aisys Essentials course covers basic theory, pneumatic design and operation of the Aisys anesthesia machine and ventilator. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing system, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Aisys anesthesia machine and ventilator.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

intended audience:

- anesthesia technicians
- biomedical equipment technicians
- biomedical and clinical engineers
- CRNAs
- physicians

product number

Tuition:
M1179276 $3,135

Tuition & lodging:
M1195629 $3,505

Tuition, lodging & air:
M1195630 $4,400*
* US only

delivery method
classroom

length of course
2 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Avance™

Participants completing the Avance class will have a comprehension of the Avance anesthesia system, breathing system, and ventilator. This will include pneumatic, as well as, electrical components. Hands-on labs will guide the participants through planned maintenance, leak testing and troubleshooting; as well as, disassembly, assembly, and adjustment of all components. It is recommended that those with little or no exposure to the field of anesthesia take the Avance Essentials course.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

customer requirements:

- Prior experience working on anesthesia machines is recommended.

product number

Tuition:	
M1050984	$11,385
Tuition & lodging:	
M1118487	$12,310
Tuition, lodging & air:	
M1118488	$13,205*
*US only	

delivery method
classroom

length of course
5 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Avance™ CS² Differences (Web)

The Avance CS² Differences course is designed to educate those individuals already trained on the Avance Carestation™, how to support the Avance CS².

course competencies:
upon successful completion of this course, the student should be able to:

- Support the repair/replacement of the Touch Display, cVIB, central brake, and LED task lighting, and 3 vap manifold
- Have a working knowledge of ecoflow
- Identify the options for 3rd cylinder and changes for the vacuum connections
- Recognize the alternate setups for service procedures
- Review the optional mode SIMV PCV-VG

equipment covered:
This course only addresses the hardware and software differences between the Avance and the Avance CS². Completion of this course alone will not qualify any individual to perform work on either an Avance or Avance CS².

product number
Tuition:
2020786-231 $935.00

delivery method
web

length of course
2 hours

pre-requisite required
Avance Technical Training Course

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Avance™ CS² Technical Service Training

The Avance CS² Technical Training class provides the participant with an understanding of the operation and configuration of the anesthesia machine and its ventilator. Hands-on labs are designed to reinforce skills required to understand the operation of the system, removal and replacement of components, loading of system software, troubleshooting using the appropriate tools, completion of the Planned Maintenance inspection, and performance of all calibrations.

course competencies:
upon successful completion of this course, the student should be able to:

- Install, operate, diagnose and resolve problem codes, and complete machine repairs and checkouts to comply with all manufacturer recommendations
- Have the knowledge to explain the operation of the Avance CS² anesthesia system including the gas delivery, ABS, scavenging system and ventilator
- Demonstrate the ability to locate, identify and explain the functions of the Anesthesia Machine Sub-systems through hands-on labs
- Have the abilitiy to perform calibrations and adjustments according to the technical reference manual
- Have the abilitiy to perform all planned maintenance procedures
- Have the ability to troubleshoot and resolve equipment problems
- Pass a written exam with a minimum score of 80% using reference materials

product number

Tuition:	
2020786-318	$11,385
Tuition & lodging:	
2020786-319	$12,310
Tuition, lodging & air:	
2020786-320	$13,205*

*US only

delivery method
classroom

length of course
5 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Avance™/Avance CS² Essentials

This two-day course covers basic theory, pneumatic design and operation of the Avance and Avance CS² anesthesia machines and ventilators. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing systems, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Avance and the Avance CS² anesthesia systems.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

intended audience:

- anesthesia technicians
- biomedical equipment technicians
- biomedical and clinical engineers
- CRNAs
- physicians

product number

Tuition:	
M1195621	$3,135
Tuition & lodging:	
M1195622	$3,505
Tuition, lodging & air:	
M1195623	$4,400*
*US only	

delivery method
classroom

length of course
2 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ Monitor B450 Differences Online Service Training

CARESCAPE Monitor B450 Differences Online Service Training is a web-based training course. The course is targeted for experienced students who have taken Instructor-Led service classes in CARESCAPE monitoring. The purpose of this training is to give an overview of the new CARESCAPE Monitor B450, especially how it compares to the CARESCAPE Monitor family of products. It will give the students information needed to maintain and repair the CARESCAPE Monitor B450.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

course competencies:
upon successful completion of this course, the student should be able to:

- Demonstrate a working knowledge of CARESCAPE Monitor B450 system
- Apply safe work practices in the service environment for the Monitoring Solutions being serviced
- Execute install, service, maintenance, and checkout of unit
- Interpret diagnostics and troubleshooting information of the B450
- Locate FRUs, execute replacement
- Perform disassembly and reassembly procedures that aid repair
- Identify upgrades

product number
Tuition:
2020786-338 $835

delivery method
online

length of course
3 hours

pre-requisite required
CARESCAPE Monitor B650 Difference Technical training
or
CARESCAPE Monitor B650 Technical Service Training

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ Monitor B450 Technical Service Training

The CARESCAPE Monitor B450 is a multi-parameter patient monitor intended for use in multiple areas and intra-hospital transport within a professional healthcare facility. The CARESCAPE Monitor B450 Technical Service Training course is intended to provide complete service training for the CARESCAPE B450 Monitor without relying on previous product knowledge of the B850 and B650 monitors as reference. This will include patient data acquisition modules compatible with the CARESCAPE B450 Monitoring system.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

course competencies:
upon successful completion of this course, the student should be able to:

- Demonstrate a working knowledge of CARESCAPE Monitor B450 system
- Apply safe work practices in the service environment for the Monitoring Solutions being serviced
- Execute install, service, maintenance, and checkout of unit
- Interpret diagnostics and troubleshooting information of the B450
- Locate FRUs, perform disassembly and reassembly procedures that aid repair
- Complete a software download

EducationServices

product number

Tuition:	
2020786-339	$5,990
Tuition & lodging:	
2020786-340	$6,730
Tuition, lodging & air:	
2020786-341	$7,655*

*US only

delivery method
classroom

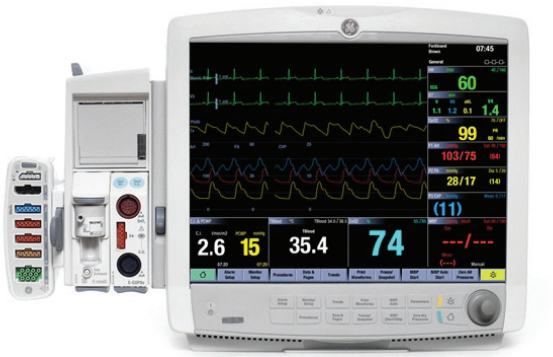
length of course
3 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ Monitor B650

The goal of the CARESCAPE Monitor B650 course is to teach the theory and operation of the CARESCAPE Monitor B650 in the wired and wireless network environment. This course provides hands-on experience using the Webmin service interface to configure default settings, activate the options and features licenses, perform the calibration procedures for supported hemodynamic parameter modules, and Airway Gas module. The CARESCAPE Monitor B650 course covers corrective maintenance, planned maintenance procedures, software transfer procedures, and service special tools.

Students will gain experience creating the wireless and wired networks where the Carescape Monitor B650 will reside. Students will be actively involved in Information Technology discussions and activities that will help the student better understand how to troubleshoot the CARESCAPE Monitor B650, as well as the wired or wireless network, where the CARESCAPE Monitor B650 will reside.



intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

customer requirements:
Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

Computer Laptop Requirements::

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer® ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

product number

Tuition:	
2020786-231	$7,925
Tuition & lodging:	
2020786-232	$8,850
Tuition, lodging & air:	
2020786-233	$9,745*
*US only	

delivery method
classroom

length of course
5 days

pre-requisite recommended
GE Essentials of Healthcare IT or equivalent

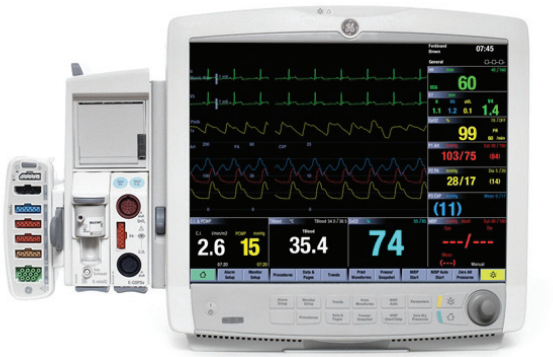
program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ Monitor B650 Differences

This 3 day course covers the differences between the B650 and B850 including installation, configuration and checkout for the CARESCAPE Monitor B650 and compatible module, displays and input devices. In addition, the class will teach how to connect and configure the B650 to the S/5 and CARESCAPE wired and wireless networks, Unity ID, InSite with ExC,and MUSE..

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers



product number

Tuition:	
2020786-310	$5,685
Tuition & lodging:	
2020786-311	$6,240
Tuition, lodging & air:	
2020786-312	$7,135*
*US only	

delivery method
classroom

length of course
3 days

pre-requisite required
CARESCAPE Monitor B850

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ Monitor B850

The goal of the CARESCAPE Monitor B850 course is to teach the theory and operation of the CARESCAPE Monitor B850, use of Webmin service interface, configuration, licensing the options and features, calibration procedures for supported hemodynamic parameter modules, corrective maintenance, planned maintenance, maintenance procedures, software transfer procedures, and service special tools.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

course competencies:
upon successful completion of this course, the student should be able to:

- Provide an overview of CARESCAPE Monitor B850 system (CPU, Software, Displays, Input devices, Frames and RACs)
- Identify acquisition devices/modules that are compatible with CARESCAPE Monitor B850 (E-Modules, Tram Modules, Printer and Writers, iPanel, Unity Network ID)
- Recognize the system hazards and safety rules
- Configuration of CARESCAPE Monitor B850 and compatible peripherals and external devices
- Create Clinical Default Settings
- Identify system service strategy
- Identify Disassembly and Reassembly procedures
- Identify system hardware components to the FRU level
- Perform Maintenance and Checkout
- Perform Webmin diagnostics
- Calibrate the Gas calibration
- Calibrate the NIBP parameter
- Calibrate the IP parameter
- Calibrate the Temperature parameter
- Calibrate the ECG Analog output
- Calibrate the IP Analog output
- Calibrate the touch screen
- Perform Installation Checkout
- Perform System Maintenance

course equipment:

- CARSCAPE Monitor B850
- F5 and F7 Frames
- E-PRESTN
- E-PSM(P)
- E-CAiOV
- PDM
- Tram-Rac and TRAM Module
- 15 and 19 inch displays

product number

Tuition:	
2020786-193	$8,295
Tuition & lodging:	
2020786-194	$9,220
Tuition, lodging & air:	
2020786-195	$10,115*
*US only	

delivery method
classroom

length of course
4.5 days

pre-requisite recommended
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ B650/B850 Monitor Hardware

The CARESCAPE B650/B850 Monitor Hardware Service Training course will introduce the B650 and B850 Patient Monitor platforms and their accompanying modules and peripherals. This Hardware Service Training will include hardware overview, User Interface navigation, troubleshooting, maintenance and checkout procedures on both B650 and B850 platforms. Some key topics that will be presented are theory and operation of the B650 and B850, use of Webmin service interface, configuration, licensing the options and features, calibration procedures for supported hemodynamic parameter modules, and special service tools.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

course competencies:
upon successful completion of this course, the student should be able to:

- Recognize the system hazards and safety rules when servicing a B850/B650 monitor.
- Identify components of the B850 and B650 monitors.
- Identify acquisition devices and modules that are compatible with B850/B650.
- Configure a B850 and B650 with compatible peripherals and external devices.
- Identify FRUs for both B850 and B650 units.
- Perform Disassembly and Reassembly procedures for both B850 and B650 units.
- Perform Maintenance and Checkout procedures.
- Calibrate all features of the B850 and B650 monitors.
- Perform Webmin diagnostics and system troubleshooting.

course equipment:

- B850 Patient Monitor
- B650 Patient Monitor
- PDM
- PSM
- Frame
- E-Modules

product number

Tuition:	
2020786-294	$7,585
Tuition & lodging:	
2020786-295	$8,325
Tuition, lodging & air:	
2020786-296	$9,220*

*US only

delivery method
classroom

length of course
4 days

pre-requisite recommended
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ R860 Differences Training (Web)

This course has been designed as an online course for the CARESCAPE R860. The differences course will allow students who have previously attended the Engstrom™ Ventilator course to service the CARESCAPE R860.

course competencies:
upon successful completion of this course, the student should be able to:

- Perform calibration, disassembly and replacement of FRU level components for the Touch Display.
- Identify menu structure for the software interface for User, Super User and Service.
- Review the external and internal changes from Engstrom to CARESCAPE R860.
- Recognize Service Application changes from Engstrom to CARESCAPE R860.
- Review the adjustable mounting rail and humidifier bracket features.
- Differentiate visually between neonatal and adult/pediatric patient types.

product number
Tuition:
2020786-388 $935

delivery method
online

length of course
2 hours

pre-requisite required
Engstrom Ventilator Training

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

CARESCAPE™ R860 Technical Training

The CARESCAPE R860 Technical Training class provides the participant with the knowledge to competently operate and maintain the R860 critical care ventilator. By the end of the course, participants should be able to interpret different breathing patterns, navigate screen menus, remove and replace system components, and perform planned maintenance procedures, service tests and calibrations.

course competencies:
upon successful completion of this course, the student should be able to:

- Operate the ventilator with different modes and navigate the menus
- Interpret pneumatic and electronic diagrams
- Remove and replace system components
- Perform planned maintenance, including tests and calibrations
- Download software for the R860
- Use system diagnostics to troubleshoot faults and perform tests
- Perform installation procedures as directed

product number

Tuition:	
2020786-387	$5,695
Tuition & lodging:	
2020786-387	$6,250
Tuition, lodging & air:	
2020786-387	$7,145*

*US only

delivery method
classroom

length of course
3 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Dash™ 2500

The Dash 2500 technical training program is designed to teach service personnel how to service and install the Dash 2500 monitor. It also covers how to disassemble/reassemble the monitor, perform a functional checkout and basic troubleshooting tips.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

product number
Tuition:
2020786-078 $350

delivery method
web

length of course
4 hours

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Engstrom™ Carestation™

The Engstrom Carestation class covers currently supported models of Engstrom Carestation. This course is designed to provide the participants with the knowledge necessary to identify and correct possible operator errors, identify, disassemble and assemble the Engstrom Carestation, identify major circuit boards, and understand the functionality of all pneumatic components. Skills are reinforced through structured labs that guide students through operation calibration, adjustment procedures, and planned maintenance of the equipment.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

EducationServices

product number

Tuition:

M1050988	$5,695

Tuition & lodging:

M1118583	$6,435

Tuition, lodging & air:

M1118584	$7,330*

*US only

delivery method

classroom

length of course

4 days

program information

Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Explore! The Anesthesia Systems™

The Explore! The Anesthesia System is a series of books and CDs dedicated to the Aestiva™ and Aisys™ anesthesia machines. Each book/ CD or online course covers subjects such as: how gas gets into an anesthesia machine; what components are inside the anesthesia machine and how gas flows through them; how vaporizers work; the basic principles of ventilators; the components and functionality of the breathing system; and the importance of scavenging. These topics are covered in non-technical language. The CD and online course includes interactive animations and simulations. The Explore Aisys can be accessed as a web-based program.

intended audience:

- anesthesia professionals
- biomedical equipment technicians
- biomedical and clinical engineers
- clinicians
- CRNAs
- physicians

EducationServices

product number

Explore Aestiva CD:	
EXPL-AES-5-CD	$180
Explore Aestiva Book with CD:	
EXPL-AES-5-CD-BK	$250
Explore Aisys Book with CD:	
M1075802	$275
Explore Aisys Web-based program:	
M1164381	$225

delivery method
book
CD/DVD
web

length of course
self-paced

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

S/5 Anesthesia & Compact Monitors

Participants in the Anesthesia and Compact Monitors Distance Learning class will receive a brief clinical overview of monitored parameters. Lectures will detail the operation, software configuration, hardware and communication of the monitors. Extensive hands-on labs are designed to reinforce the concepts learned during lecture. Training for the AS/3 Anesthesia Monitor is also covered in this class.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

product number

Tuition:

7000-0001-416	$5,755

Tuition & lodging:

M1118605	$6,495

Tuition, lodging & air:

M1118606	$7,390*

*US only

delivery method
classroom

length of course
4 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

VersaMed iVent™ 101

The iVent 101 technical class covers currently supported models of iVent 101 ventilator. This course is designed to provide the biomedical technician with the knowledge necessary to identify and correct possible operator errors, identify, disassemble and reassemble the iVent 101, identify major circuit boards, and understand the functionality of all pneumatic components. Skills are reinforced through structured labs that guide the participants through operation calibration, adjustment procedures, and maintenance of the equipment.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

product number

Tuition:

M1165617	$3,450

Tuition & lodging:

M1165722	$3,820

Tuition, lodging & air:

M1165723	$4,715*

*US only

delivery method
classroom

length of course
2 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

VersaMed iVent™ 201 Ventilator

The iVent201 technical class covers currently supported models of iVent201 ventilators. This course is designed to provide the biomedical technician with the knowledge necessary to correct possible operator errors. Students will disassemble and assemble the iVent201, identify major circuit boards, and understand the functionality of all pneumatic components. In addition, students will learn to install and check out the ventilator. The use of the system diagnostics for troubleshooting problems will also be covered. Skills are reinforced through structured labs that guide students through operation, calibration, adjustment procedures, and preventive maintenance of the equipment.

intended audience:

- biomedical equipment technicians
- biomedical and clinical engineers

product number

Tuition:
M1165718 $3,800
Tuition & lodging:
M1165720 $4,170
Tuition, lodging & air:
M1165721 $5,065*
*US only

delivery method
classroom

length of course
2 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Essentials of Healthcare IT℠

This instructor-led class is specifically designed for technical professionals responsible for the installation and support of medical devices and the networks interconnecting them. The class is taught by highly qualified technical trainers and will focus on developing the practical skills needed by a biomedical engineer to interface with networked devices in healthcare today. Extensive labs with plenty of hands-on time allows the student with no previous IT training to gain confidence in this new and exciting arena. The class will build and troubleshoot flat, switched, routed, and wireless networks. Basic computer skills are required.

intended audience:

- Biomedical equipment technicians
- Biomedical and clinical engineers
- Biomedical and clinical engineering managers
- Medical technology managers
- Hospital IT staff
- Any professional who supports the field of medical technology

product number

Tuition:	
2030677-001	$4,250
Tuition & lodging:	
2030677-002	$5,175
Tuition, lodging & air:	
2030677-003	$6,070*
*US only	

delivery method
class

length of course
4 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Bring this class to your location.
Call for pricing and details: 888-799-9921

Securing the Healthcare IT Environment℠

This instructor-led class is specifically designed for technical professionals responsible for the secure transport of electronic protected health information across healthcare IT infrastructures. This class is taught by experts in the healthcare IT field and topics include: a global security overview, relevant HIPAA Title II Privacy and Security Rule information, the top 10 HCIT network attacks and ways to prevent them, strategies to mitigate risk, and securing a home network. Hands-on labs include password cracking, configuring biometric identifiers, encryption, port scanning, using network analyzers, software firewall configuration, performing an MD5 Hash, and home router configuration. Students will perform a risk analysis of medical devices using MDS2 documentation and ACCE/ECRI tools. Basic computer skills and TCP/IP network troubleshooting techniques are required.

intended audience:

- Biomedical equipment technicians
- Biomedical and clinical engineers
- Biomedical and clinical engineering managers
- Medical technology managers
- Hospital IT staff
- Any professional who supports the field of medical technology

product number

Tuition:	
2020786-053	$5,000
Tuition & lodging:	
2020786-054	$5,925
Tuition, lodging & air:	
2020786-055	$6,820*

*US only

delivery method
class

length of course
5 days

IT skills required
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Wireless in the Healthcare IT Environment℠

This vendor-neutral class focuses on the installation, management, and troubleshooting of RF technologies in healthcare today; including WMTS, 802.11, RFID, and cellular communications. Topics include RF and antenna basics, common interference sources in healthcare, remote patient viewing using the Wireless Medical Telemetry Service (WMTS), 802.11 and access point configuration including wireless VLANs, RFID basics, cellular communications, and security requirements for wireless systems. Students receive hands-on training with network analyzers and spectrum analyzers, perform site surveys for WMTS and 802.11, and troubleshoot WMTS antenna systems.

intended audience:

- Biomedical equipment technicians
- Biomedical and clinical engineers
- Biomedical and clinical engineering managers
- Medical technology managers
- Hospital IT staff
- Any professional who supports the field of medical technology

product number

Tuition:
2020786-050 $5,000
Tuition & lodging:
2020786-051 $5,925
Tuition, lodging & air:
2020786-052 $6,820*
*US only

delivery method
class

length of course
5 days

IT skills required
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Essentials of HL7®

This vendor-neutral class prepares the student to configure and troubleshoot HL7. Focusing on V2.x, students will learn to use the HL7 standard as a reference source as well as vendor conformance documents to aid in interface design. Topics include the structure and encoding of common patient administration, order, results, and billing messages, as well as interface design, data mapping, and vocabulary. Common troubleshooting techniques will be discussed and class concepts will be reinforced through use of the HL7 Messaging Workbench software. This instructor-led course is open to anyone wanting a more in-depth insight into HL7, regardless of equipment choice in the healthcare environment.

intended audience:

- Biomedical equipment technicians
- Biomedical and clinical engineers
- Biomedical and clinical engineering managers
- Medical technology managers
- Hospital IT staff
- Any professional who supports the field of medical technology

product number

Tuition:	
2020786-167	$2,350
Tuition & lodging:	
2020786-168	$2,905
Tuition, lodging & air:	
2020786-169	$3,800*

*US only

delivery method
class

length of course
3 days

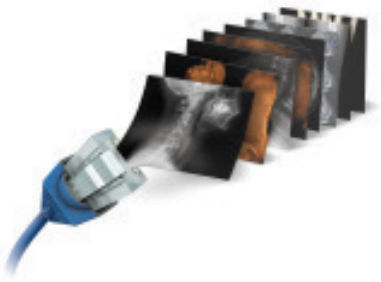
program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

Essentials of DICOM®

This instructor-led course prepares the participant to become proficient in the installation, maintenance and troubleshooting of DICOM on digital imaging networks. Participants will learn to use the DICOM standard as a reference source, analyze conformance statements for predicting connectivity, configure and use DICOM simulators, and capture and analyze DICOM traffic using freeware tools like the DICOM Validation Toolkit.

intended audience:

- Biomedical equipment technicians
- Biomedical and clinical engineers
- Biomedical and clinical engineering managers
- Medical technology managers
- Hospital IT staff
- Radiologists
- Any professional who supports the field of medical technology



product number

Tuition:

2020786-126	$3,500

Tuition & lodging:

2020786-127	$4,055

Tuition, lodging & air:

2020786-128	$4,950*

*US only

delivery method
class

length of course
3 days

IT skills required
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

GE Healthcare
N16 W22419 Watertown Road
Waukesha, WI 53186
U.S.A.
www.gehealthcare.com

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